PPI BSF Project Solan : 2nd Quarterly Progress Report for Ist Year

(June- August 2025)

"Bio Sand Filters for Safe Drinking Water in remote Villages of Solan District (Himachal Pradesh)"

Submitted to:

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INDEX

Sl.	Particulars	Page
A	**Brief summary: PPI project – Q1 (Mar-May'25) activities**	3-3
B	**PPI project Activities: Q2 (June-Aug' 2025)** • Community Sensitisation Meetings • Upfront CC Collection • Filter Construction, Testing & Distribution • User Education through IEC Material • Filter User Follow Up	3-7
C	**Concluding Remark**	7

A. Brief summary: PPI project Solan (HP) - QI (Mar-May'25) activities

Ongoing PPI BSF project (Solan) is a part & extension of SATHI's previous project on bio-sand filter interventions. From Mar'25, SATHI started implementation of PPI project activities. During 1st year (March'25-Feb'26) of PPI project implementation, SATHI proposed to develop & distribute total 50 Nos. Bio-sand Filters in 05 villages of Solan block (HP). In Q1 (March –May'25) SATHI initiated community sensitization, capacity building & CC collection activity. Besides, SATHI developed and installed 14 nos. bio-sand filters in target villages and selected beneficiaries were also trained on filter uses and its O&M.

B. PPI project Activities: Q2 (June-Aug' 2025)

During Q2 (June-Aug'25), SATHI accomplished following activities:-

I. Community Sensitization Meetings

During Q2, SATHI firstly organized community sensitization meetings in PPI targeted villages i.e. **Pratha & Navyon** of Solan Block (HP). Key objective of the meeting was to encourage villagers for adopting Bio-sand Filter to resolve their household drinking water quality issues. SATHI field staff also educated the villagers about cost effectiveness, efficiency, uses and operation & maintenance of filters. The details of Awareness activities conducted are given in below table.

Table: Details of organizing Awareness creation meetings during June 25

Particular	Venue/Village	Date	Name of Panchayat	No.of Participants
Awareness cum Training camp	Pratha	04-06-2025	Pratha	15
	Navyon	11-06-2025	Pratha	16

II. Upfront Community Contribution (CC) Collection

During 1st year of PPI project (Mar'25-Feb'26), SATHI has proposed to develop & distribute 50 Bio sand Filters, which will directly benefits 330-340 population in 05 villages. During Q1, SATHI team with consultation of local SHG & PRI selected 1st

year beneficiaries of PPI project. After final selection, respective PPI project beneficiaries started collection of 20 % cash contribution towards development & installation of filters. Till Q1, total 14 beneficiaries deposited their filter contribution whereas during Q2 (June-Aug'25) additional 12 beneficiaries have deposited their cash contribution to SATHI for filter installation.

Table: PPI project beneficiaries & collection of cash contribution (during June-Aug '25)

SI	Name	Name of Village	Amount (Rs.)	Receipt No.	Date
15	Uma Devi	Bhoj Nager	900-00	773	15-06-2025
16	Mamata-i	Bhoj Nager	900-00	774	15-06-2025
17	Sita Devi	Bhoj Nager	900-00	775	15-06-2025
18	Reena Kumari	Bhoj Nager	900-00	776	15-06-2025
19	Hem lata	Bhoj Nager	900-00	777	15-06-2025
20	Monika Devi	Bhoj Nager	900-00	778	15-06-2025
21	Shanti Devi	Bhoj Nager	900-00	779	15-06-2025
22	Santosh Devi	Bhoj Nager	900-00	780	15-06-2025
23	Kusam Lata	Bhoj Nager	900-00	781	15-06-2025
24	Asha Devi	Bhoj Nager	900-00	782	15-06-2025
25	Santosh Thakur	Bhoj Nager	900-00	783	15-06-2025
26	Mamata-ii	Bhoj Nager	900-00	784	15-06-2025

III. Filter Construction, Testing & Distribution

After receiving upfront cash contribution, SATHI initated filter construction, testing & distribution activities. Due to quality concern issues, SATHI constructed concrete filters at its Thakurdwara campus. During filter making process, SATHI assures quality work especially during molding, filling with concrete mixture & de-molding process. After construction, filters were kept under curing & water leakage testing for 8-10 days. Once getting satisfied with all requisite parameters, SATHI team made proper finishing in filter through wall putty, two coats of paints, sticking of stickers indicating name of funding agency & implementing organization. After finishing, concrete filters were transported to project village & installed (filled with filter

media, fixing diffuser plate, lid, water testing etc) by SATHI at respective beneficiaries households.

Table: Distribution of filter during Q2: June-Aug' 25

SI	Name of Beneficiary	Name of Village	Name of Gram Panchayat	District
15	Uma Devi	Bhoj Nager	Bhoj Nager	Solan
16	Mamata-i	Bhoj Nager	Bhoj Nager	Solan
17	Sita Devi	Bhoj Nager	Bhoj Nager	Solan
18	Reena Kumari	Bhoj Nager	Bhoj Nager	Solan
19	Hem lata	Bhoj Nager	Bhoj Nager	Solan
20	Monika Devi	Bhoj Nager	Bhoj Nager	Solan
21	Shanti Devi	Bhoj Nager	Bhoj Nager	Solan
22	Santosh Devi	Bhoj Nager	Bhoj Nager	Solan
23	Kusam Lata	Bhoj Nager	Bhoj Nager	Solan
24	Asha Devi	Bhoj Nager	Bhoj Nager	Solan
25	Santosh Thakur	Bhoj Nager	Bhoj Nager	Solan
26	Mamata-ii	Bhoj Nager	Bhoj Nager	Solan

Photographs: PPI project (Solan)-1st year beneficiaries families with bio-sand water filter installation

IV. User Education through IEC Material

In addition to bio-sand filter installation, SATHI educated the beneficiary community about filter uses and O&M (Operation and Maintenance). To achieve this objective, SATHI firstly developed educational material such as brochure, wall poster & stickers. Brief details of bio-sand filter, technical specifications, and its uses are highlighted in brochure and wall poster. In addition, name of funding agency, implementing organization, technical assistance contact are clearly mentioned through stickers placed on outer wall of installed filter. During Q2 (June-Aug'25), SATHI distributed filter educational material to 12 target families.

V. Filter User Follow-Up

Under PPI, till end of 2nd quarter SATHI successfully installed total 26 no. concrete bio-sand water filters (14 in Q1 and 12 in Q2) in 03 target villages of Solan block (HP). In addition to filter installation & user education, SATHI team is also carrying out regular follow up with beneficiary families. **On 17th -18th June 2025 SATHI team carried out 1st follow up visit to 14 nos. beneficiaries of 1st quarter**. Data of follow up visit tabulated in Multi Follow-Up Visit Monitoring Form, which is as follows:-

Bio-sand Filter
Multi Follow - Up Visit Monitoring Form

√ If acceptable
X If unacceptable

Date of Follow-Up: 17th -18th June 2025

Filter Number	HH/Beneficiary Name	Flow rate (ml/min)	Flow Rate less than 400 ml/min	Diffuser OK	Surface of sand is flat & level	Standing water depth 4 to 6 cm	Water poured into filter is not too	Filter used every day	Filter & outlet spout clean	Safe storage
1	Meera Devi	400 ml/m	√	√	√	√	√	√	√	√
2	Sunita Devi	400 ml/m	√	√	√	√	√	√	√	√
3	Rama Devi	380 ml/m	X	√	√	√	√	√	√	√
4	Phoolwanti	405 ml/m	√	√	X	√	√	√	√	√
5	Poonam Devi	395 ml/m	√	√	√	√	√	√	√	√

6	Raksha Devi	400 ml/m	√	√	√	√	√	√	√	√
7	Meena Devi	400 ml/m	√	√	√	√	√	√	√	√
8	Nikki Devi	410 ml/m	√	√	√	√	√	√	√	√
9	Gomati Devi	400 ml/m	√	√	√	√	√	√	√	√
10	Roshani Devi	410 ml/m	√	√	√	√	√	√	√	√
11	Nima Devi	400 ml/m	√	√	√	√	√	√	√	√
12	Bachani Devi	405 ml/m	√	√	√	√	√	√	√	√
13	Jaimanti Devi	400 ml/m	√	√	√	√	√	√	√	√
14	Rekha Devi	400 ml/m	√	√	√	√	√	√	√	√
		TOTAL √	**13**	**14**	**13**	**14**	**14**	**14**	**14**	**14**
		TOTAL X	**1**	**0**	**1**	**0**	**0**	**0**	**0**	**0**

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As analyzed from user follow-up data; Total 14 families which were covered under follow-up visit, all are using filter regularly. Apart these Target families are satisfied with the quality of water filtered through bio-sand filters and beneficiaries are using it for drinking and cooking purposes.

C. Concluding remark

With financial assistance of PPI, SATHI is implementing bio-sand water filter programme in Solan block of HP (India). Under ongoing project, SATHI proposed to develop & distribute total 50 Nos. Bio-sand Filters in 05 villages during 1st year (2025-26). **Till end of 2nd quarter of 1st year of project, SATHI distributed total 26 Nos. filters to beneficiaries in 03 project villages. Out of total 26, 14 families were covered in 1st quarter (Mar-May'25) & 12 during 2nd quarter (June-Aug'25).** To ensure regular use of filter among beneficiaries, SATHI team conducts monthly/quarterly follow –up visit in project region. All beneficiaries & their family members have been trained by SATHI in filter use, operation & maintenance. Beside this, SATHI Organization has also distributed the educational material on filter use & maintenance to beneficiary community. If some technical problems regarding filter use persist, it is rectified by SATHI team.

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